

Patent Abstracts of Japan

PUBLICATION NUMBER : 05301074
PUBLICATION DATE : 16-11-93

APPLICATION DATE : 27-04-92
APPLICATION NUMBER : 04107640

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INT.CL. : B05D 7/24 B05D 3/10 B05D 7/14 B05D 7/24 C23C 22/00 C23C 22/78 C23C 22/83

TITLE : METHOD FOR BASE TREATMENT OF POWDERY POLYETHYLENE LINING

ABSTRACT : PURPOSE: To enable formation of excellent polyethylene lining even in a high- temp. environment by pickling the surface of a material to be lined with hydrochloric acid, washing with water, chemically treating with a zinc phosphate- calcium soln., bringing the material into contact with a specified chromate soln., and then drying.

CONSTITUTION: The lining method of powdery polyethylene includes the following process. A material to be lined consisting of carbon steel is preheated at temp. higher than the melting point of the powdery polyethylene, to which the polyethylene powder is supplied. The powder is molten by the heat of the material to be lined to form a continuous polyethylene film on the surface of the material. As for the base treatment of the material to be lined, the surface of the material is pickled with hydrochloric acid, washed with water, chemically treated with a zinc phosphate-calcium soln., then brought into contact with a chromate soln. of pH 4.5 to 6.0 containing 0.005-0.05wt.% CrO₃ concn. at ≤50°C liquid temp., and then dried.

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